Twan Lammers

List of Publications by Year
in descending order

256 papers	22,962 citations	7069 78 h-index	9311 143 g-index
266 all docs	266 docs citations	266 times ranked	27479 citing authors

#	Article	IF	Citations
1	Drug targeting to tumors: Principles, pitfalls and (pre-) clinical progress. Journal of Controlled Release, 2012, 161, 175-187.	4.8	1,131
2	Tumor targeting via EPR: Strategies to enhance patient responses. Advanced Drug Delivery Reviews, 2018, 130, 17-38.	6.6	897
3	Challenges and strategies in anti-cancer nanomedicine development: An industry perspective. Advanced Drug Delivery Reviews, 2017, 108, 25-38.	6.6	881
4	Smart cancer nanomedicine. Nature Nanotechnology, 2019, 14, 1007-1017.	15.6	776
5	Theranostic Nanomedicine. Accounts of Chemical Research, 2011, 44, 1029-1038.	7.6	765
6	Iron oxide nanoparticles: Diagnostic, therapeutic and theranostic applications. Advanced Drug Delivery Reviews, 2019, 138, 302-325.	6.6	731
7	Tumour-targeted nanomedicines: principles and practice. British Journal of Cancer, 2008, 99, 392-397.	2.9	478
8	The EPR effect and beyond: Strategies to improve tumor targeting and cancer nanomedicine treatment efficacy. Theranostics, 2020, 10, 7921-7924.	4.6	459
9	Core-crosslinked polymeric micelles: Principles, preparation, biomedical applications and clinical translation. Nano Today, 2015, 10, 93-117.	6.2	415
10	Noninvasive Imaging of Nanomedicines and Nanotheranostics: Principles, Progress, and Prospects. Chemical Reviews, 2015, 115, 10907-10937.	23.0	401
11	Applications of nanoparticles for diagnosis and therapy of cancer. British Journal of Radiology, 2015, 88, 20150207.	1.0	372
12	PLGA-Based Nanoparticles in Cancer Treatment. Frontiers in Pharmacology, 2018, 9, 1260.	1.6	372
13	Nanotheranostics and Image-Guided Drug Delivery: Current Concepts and Future Directions. Molecular Pharmaceutics, 2010, 7, 1899-1912.	2.3	344
14	Specific Targeting of Tumor Angiogenesis by RGD-Conjugated Ultrasmall Superparamagnetic Iron Oxide Particles Using a Clinical 1.5-T Magnetic Resonance Scanner. Cancer Research, 2007, 67, 1555-1562.	0.4	332
15	Combining Nanomedicine and Immunotherapy. Accounts of Chemical Research, 2019, 52, 1543-1554.	7.6	310
16	Recent progress in nanomedicine: therapeutic, diagnostic and theranostic applications. Current Opinion in Biotechnology, 2013, 24, 1159-1166.	3.3	279
17	Passive versus Active Tumor Targeting Using RGD- and NGR-Modified Polymeric Nanomedicines. Nano Letters, 2014, 14, 972-981.	4.5	272
18	Ultrasound Microbubbles for Molecular Diagnosis, Therapy, and Theranostics. Journal of Nuclear Medicine, 2012, 53, 345-348.	2.8	263

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19	Targeting iron metabolism in drug discovery and delivery. Nature Reviews Drug Discovery, 2017, 16, 400-423.	21.5	258
20	CCL2-dependent infiltrating macrophages promote angiogenesis in progressive liver fibrosis. Gut, 2014, 63, 1960-1971.	6.1	247
21	Core-crosslinked polymeric micelles with controlled release of covalently entrapped doxorubicin. Biomaterials, 2010, 31, 7797-7804.	5.7	241
22	Multidrug resistance: Physiological principles and nanomedical solutions. Advanced Drug Delivery Reviews, 2013, 65, 1852-1865.	6.6	220
23	Simultaneous delivery of doxorubicin and gemcitabine to tumors in vivo using prototypic polymeric drug carriers. Biomaterials, 2009, 30, 3466-3475.	5.7	219
24	Strategies for encapsulation of small hydrophilic and amphiphilic drugs in PLGA microspheres: State-of-the-art and challenges. International Journal of Pharmaceutics, 2016, 499, 358-367.	2.6	207
25	Nanoparticles for Imaging: Top or Flop?. Radiology, 2014, 273, 10-28.	3.6	195
26	Pharmacological and physical vessel modulation strategies to improve EPR-mediated drug targeting to tumors. Advanced Drug Delivery Reviews, 2017, 119, 44-60.	6.6	194
27	Superparamagnetic Iron Oxide Nanoparticles Encapsulated in Biodegradable Thermosensitive Polymeric Micelles: Toward a Targeted Nanomedicine Suitable for Image-Guided Drug Delivery. Langmuir, 2009, 25, 2060-2067.	1.6	187
28	Integrating Artificial Intelligence and Nanotechnology for Precision Cancer Medicine. Advanced Materials, 2020, 32, e1901989.	11.1	187
29	Complete Regression of Xenograft Tumors upon Targeted Delivery of Paclitaxel via Îâ€“Î Stacking Stabilized Polymeric Micelles. ACS Nano, 2015, 9, 3740-3752.	7.3	185
30	Recent advances in molecular, multimodal and theranostic ultrasound imaging. Advanced Drug Delivery Reviews, 2014, 72, 15-27.	6.6	184
31	Tumor-targeted nanomedicines for cancer theranostics. Pharmacological Research, 2017, 115, 87-95.	3.1	176
32	3Dâ€Bioprinted Miniâ€Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. Advanced Materials, 2019, 31, e1806590.	11.1	168
33	Personalized Nanomedicine. Clinical Cancer Research, 2012, 18, 4889-4894.	3.2	166
34	Motion model ultrasound localization microscopy for preclinical and clinical multiparametric tumor characterization. Nature Communications, 2018, 9, 1527.	5.8	161
35	Enhancing Tumor Penetration of Nanomedicines. Biomacromolecules, 2017, 18, 1449-1459.	2.6	157
36	Cancer nanomedicine: is targeting our target?. Nature Reviews Materials, 2016, 1, .	23.3	154

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37	Iron oxide nanoparticle-containing microbubble composites as contrast agents for MR and ultrasound dual-modality imaging. Biomaterials, 2011, 32, 6155-6163.	5.7	147
38	Toxicity of metalâ€“organic framework nanoparticles: from essential analyses to potential applications. Chemical Society Reviews, 2022, 51, 464-484.	18.7	144
39	Role of Type 2C Protein Phosphatases in Growth Regulation and in Cellular Stress Signaling. Critical Reviews in Biochemistry and Molecular Biology, 2007, 42, 437-461.	2.3	143
40	Challenges in nanomedicine clinical translation. Drug Delivery and Translational Research, 2020, 10, 721-725.	3.0	140
41	Dexamethasone nanomedicines for COVID-19. Nature Nanotechnology, 2020, 15, 622-624.	15.6	138
42	Peptide-Functionalized Gold Nanorods Increase Liver Injury in Hepatitis. ACS Nano, 2012, 6, 8767-8777.	7.3	137
43	Image-guided, targeted and triggered drug delivery to tumors using polymer-based microbubbles. Journal of Controlled Release, 2012, 163, 75-81.	4.8	133
44	Nanomedicines for Inflammatory Arthritis: Head-to-Head Comparison of Glucocorticoid-Containing Polymers, Micelles, and Liposomes. ACS Nano, 2014, 8, 458-466.	7.3	133
45	Clinical application of polymeric micelles for the treatment of cancer. Materials Chemistry Frontiers, 2017, 1, 1485-1501.	3.2	133
46	Micro-CT Imaging of Tumor Angiogenesis. American Journal of Pathology, 2014, 184, 431-441.	1.9	132
47	Polymeric nanomedicines for image-guided drug delivery and tumor-targeted combination therapy. Nano Today, 2010, 5, 197-212.	6.2	126
48	Effect of physicochemical modification on the biodistribution and tumor accumulation of HPMA copolymers. Journal of Controlled Release, 2005, 110, 103-118.	4.8	125
49	Physicoâ€Chemical Strategies to Enhance Stability and Drug Retention of Polymeric Micelles for Tumorâ€Targeted Drug Delivery. Macromolecular Bioscience, 2017, 17, 1600160.	2.1	125
50	Theranostic USPIOâ€Loaded Microbubbles for Mediating and Monitoring Bloodâ€Brain Barrier Permeation. Advanced Functional Materials, 2015, 25, 36-43.	7.8	123
51	Ultrasound-mediated drug delivery to the brain: principles, progress and prospects. Drug Discovery Today: Technologies, 2016, 20, 41-48.	4.0	120
52	Size-isolation of superparamagnetic iron oxide nanoparticles improves MRI, MPI and hyperthermia performance. Journal of Nanobiotechnology, 2020, 18, 22.	4.2	120
53	Sonoporation enhances liposome accumulation and penetration in tumors with low EPR. Journal of Controlled Release, 2016, 231, 77-85.	4.8	119
54	Image-guided and passively tumour-targeted polymeric nanomedicines for radiochemotherapy. British Journal of Cancer, 2008, 99, 900-910.	2.9	118

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55	Nanomedicine and macroscale materials in immuno-oncology. Chemical Society Reviews, 2019, 48, 351-381.	18.7	118
56	SiRNA delivery with functionalized carbon nanotubes. International Journal of Pharmaceutics, 2011, 416, 419-425.	2.6	117
57	Fluorescent cell-traceable dexamethasone-loaded liposomes for the treatment of inflammatory liver diseases. Biomaterials, 2015, 37, 367-382.	5.7	115
58	Double-Edged Role of the CXCL12/CXCR4 Axis in Experimental Myocardial Infarction. Journal of the American College of Cardiology, 2011, 58, 2415-2423.	1.2	114
59	Quantitative Micro-Computed Tomography Imaging of Vascular Dysfunction in Progressive Kidney Diseases. Journal of the American Society of Nephrology: JASN, 2016, 27, 520-532.	3.0	112
60	Intrinsically active nanobody-modified polymeric micelles for tumor-targeted combination therapy. Biomaterials, 2013, 34, 1255-1260.	5.7	111
61	Improving the efficacy of combined modality anticancer therapy using HPMA copolymer-based nanomedicine formulationsâ˜†. Advanced Drug Delivery Reviews, 2010, 62, 203-230.	6.6	110
62	Fibrosis imaging: Current concepts and future directions. Advanced Drug Delivery Reviews, 2017, 121, 9-26.	6.6	110
63	Effect of radiotherapy and hyperthermia on the tumor accumulation of HPMA copolymer-based drug delivery systems. Journal of Controlled Release, 2007, 117, 333-341.	4.8	109
64	Cancer nanomedicines: oversold or underappreciated?. Expert Opinion on Drug Delivery, 2017, 14, 1-5.	2.4	107
65	Engineering Nanoparticles to Reprogram the Tumor Immune Microenvironment for Improved Cancer Immunotherapy. Theranostics, 2019, 9, 7981-8000.	4.6	106
66	In vivo nanotoxicity testing using the zebrafish embryo assay. Journal of Materials Chemistry B, 2013, 1, 3918.	2.9	104
67	Effect of Intratumoral Injection on the Biodistribution, the Therapeutic Potential of HPMA Copolymer-Based Drug Delivery Systems. Neoplasia, 2006, 8, 788-795.	2.3	103
68	GlucocorticoidâEŁoaded Coreâ€Crossâ€Linked Polymeric Micelles with Tailorable Release Kinetics for Targeted Therapy of Rheumatoid Arthritis. Angewandte Chemie - International Edition, 2012, 51, 7254-7258.	7.2	102
69	Noninvasive Optical Imaging of Nanomedicine Biodistribution. ACS Nano, 2013, 7, 252-262.	7.3	102
70	Polymeric Nanoparticles with Neglectable Protein Corona. Small, 2020, 16, e1907574.	5.2	95
71	Nanobody â€" Shell functionalized thermosensitive core-crosslinked polymeric micelles for active drug targeting. Journal of Controlled Release, 2011, 151, 183-192.	4.8	94
72	Imalytics Preclinical: Interactive Analysis of Biomedical Volume Data. Theranostics, 2016, 6, 328-341.	4.6	94

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73	Singlet oxygen-responsive micelles for enhanced photodynamic therapy. Journal of Controlled Release, 2017, 260, 12-21.	4.8	90
74	Drug targeting systems for inflammatory disease: One for all, all for one. Journal of Controlled Release, 2012, 161, 225-234.	4.8	88
75	Iron metabolism: pathophysiology and pharmacology. Trends in Pharmacological Sciences, 2021, 42, 640-656.	4.0	87
76	Imaging Nanomedicine-Based Drug Delivery: a Review of Clinical Studies. Molecular Imaging and Biology, 2018, 20, 683-695.	1.3	86
77	Iron Oxideâ€Labeled Collagen Scaffolds for Nonâ€Invasive MR Imaging in Tissue Engineering. Advanced Functional Materials, 2014, 24, 754-762.	7.8	85
78	Characterizing EPR-mediated passive drug targeting using contrast-enhanced functional ultrasound imaging. Journal of Controlled Release, 2014, 182, 83-89.	4.8	83
79	CXCR6 Inhibits Hepatocarcinogenesis by Promoting Natural Killer T- and CD4+ T-Cellâ€"Dependent Control of Senescence. Gastroenterology, 2019, 156, 1877-1889.e4.	0.6	83
80	Pharmacological Intervention in Hepatic Stellate Cell Activation and Hepatic Fibrosis. Frontiers in Pharmacology, 2016, 7, 33.	1.6	81
81	Recent advances in ultrasound-based diagnosis and therapy with micro- and nanometer-sized formulations. Methods, 2017, 130, 4-13.	1.9	81
82	Liposomal encapsulation of dexamethasone modulates cytotoxicity, inflammatory cytokine response, and migratory properties of primary human macrophages. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1209-1220.	1.7	80
83	Non-invasive imaging for studying anti-angiogenic therapy effects. Thrombosis and Haemostasis, 2013, 109, 375-390.	1.8	79
84	Histidineâ€rich glycoprotein promotes macrophage activation and inflammation in chronic liver disease. Hepatology, 2016, 63, 1310-1324.	3.6	77
85	Sonopermeation to improve drug delivery to tumors: from fundamental understanding to clinical translation. Expert Opinion on Drug Delivery, 2018, 15, 1249-1261.	2.4	76
86	Liposomal corticosteroids for the treatment of inflammatory disorders and cancer. Journal of Controlled Release, 2014, 190, 624-636.	4.8	75
87	Drug Delivery Research for the Future: Expanding the Nano Horizons and Beyond. Journal of Controlled Release, 2017, 246, 183-184.	4.8	75
88	Clinically established biodegradable long acting injectables: An industry perspective. Advanced Drug Delivery Reviews, 2020, 167, 19-46.	6.6	72
89	The CCR2+ Macrophage Subset Promotes Pathogenic Angiogenesis for Tumor Vascularization in Fibrotic Livers. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 371-390.	2.3	71
90	Metallodrugs in cancer nanomedicine. Chemical Society Reviews, 2022, 51, 2544-2582.	18.7	70

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91	Balancing Passive and Active Targeting to Different Tumor Compartments Using Riboflavin-Functionalized Polymeric Nanocarriers. Nano Letters, 2017, 17, 4665-4674.	4.5	69
92	The success of nanomedicine. Nano Today, 2020, 31, 100853.	6.2	69
93	The necroptosis-inducing kinase RIPK3 dampens adipose tissue inflammation and glucose intolerance. Nature Communications, 2016, 7, 11869.	5.8	68
94	USPIO-labeled textile materials for non-invasive MR imaging of tissue-engineered vascular grafts. Biomaterials, 2015, 39, 155-163.	5.7	66
95	SMART drug delivery systems: Back to the future vs. clinical reality. International Journal of Pharmaceutics, 2013, 454, 527-529.	2.6	64
96	Enhanced In Vitro and In Vivo Cellular Imaging with Green Tea Coated Water-Soluble Iron Oxide Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 6530-6540.	4.0	63
97	Targeting distinct myeloid cell populations inÂvivo using polymers, liposomes and microbubbles. Biomaterials, 2017, 114, 106-120.	5.7	63
98	Gene Silencing Activity of siRNA Polyplexes Based on Thiolated N,N,N-Trimethylated Chitosan. Bioconjugate Chemistry, 2010, 21, 2339-2346.	1.8	62
99	FMN-coated fluorescent iron oxide nanoparticles for RCP-mediated targeting and labeling of metabolically active cancer and endothelial cells. Biomaterials, 2011, 32, 5863-5871.	5.7	62
100	HPMA copolymers: 30years of advancesâ˜†. Advanced Drug Delivery Reviews, 2010, 62, 119-121.	6.6	60
101	From Design to Clinic: Engineered Nanobiomaterials for Immune Normalization Therapy of Cancer. Advanced Materials, 2021, 33, e2008094.	11.1	60
102	PBCA-based polymeric microbubbles for molecular imaging and drug delivery. Journal of Controlled Release, 2017, 259, 128-135.	4.8	59
103	Overcoming multidrug resistance using folate receptor-targeted and pH-responsive polymeric nanogels containing covalently entrapped doxorubicin. Nanoscale, 2017, 9, 10404-10419.	2.8	58
104	The theranostic path to personalized nanomedicine. Clinical and Translational Imaging, 2014, 2, 67-76.	1.1	57
105	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. Science Translational Medicine, 2019, 11, .	5.8	56
106	MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model. Journal of Controlled Release, 2012, 161, 772-780.	4.8	55
107	Synthesis and Characterization of Biodegradable and Thermosensitive Polymeric Micelles with Covalently Bound Doxorubicin-Glucuronide Prodrug via Click Chemistry. Bioconjugate Chemistry, 2011, 22, 2519-2530.	1.8	54
108	Screening of budesonide nanoformulations for treatment of inflammatory bowel disease in an inflamed 3D cell-culture model. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 275-285.	0.9	54

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109	Overcoming cellular multidrug resistance using classical nanomedicine formulations. European Journal of Pharmaceutical Sciences, 2012, 45, 421-428.	1.9	53
110	Potent and Prolonged Innate Immune Activation by Enzyme-Responsive Imidazoquinoline TLR7/8 Agonist Prodrug Vesicles. Journal of the American Chemical Society, 2020, 142, 12133-12139.	6.6	52
111	Water-soluble dopamine-based polymers for photoacoustic imaging. Chemical Communications, 2015, 51, 6084-6087.	2.2	51
112	Glucocorticoid-loaded liposomes induce a pro-resolution phenotype in human primary macrophages to support chronic wound healing. Biomaterials, 2018, 178, 481-495.	5.7	50
113	Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging. ACS Photonics, 2020, 7, 646-652.	3.2	49
114	Formulation and characterization of microspheres loaded with imatinib for sustained delivery. International Journal of Pharmaceutics, 2015, 482, 123-130.	2.6	48
115	Advanced Ultrasound Technologies for Diagnosis and Therapy. Journal of Nuclear Medicine, 2018, 59, 740-746.	2.8	47
116	Absorption Reconstruction Improves Biodistribution Assessment of Fluorescent Nanoprobes Using Hybrid Fluorescence-mediated Tomography. Theranostics, 2014, 4, 960-971.	4.6	46
117	Targeting CCl4â€induced liver fibrosis by RNA interferenceâ€“mediated inhibition of cyclin E1 in mice. Hepatology, 2017, 66, 1242-1257.	3.6	46
118	Polymeric micelles for cancer therapy: 3 Câ€™s to enhance efficacy. Current Opinion in Solid State and Materials Science, 2012, 16, 302-309.	5.6	45
119	Polyplexes based on cationic polymers with strong nucleic acid binding properties. European Journal of Pharmaceutical Sciences, 2012, 45, 459-466.	1.9	45
120	Riboflavin-Targeted Drug Delivery. Cancers, 2020, 12, 295.	1.7	43
121	Macrophages and liposomes in inflammatory disease: Friends or foes?. International Journal of Pharmaceutics, 2011, 416, 499-506.	2.6	41
122	Liposomal delivery of dexamethasone attenuates prostate cancer bone metastatic tumor growth In Vivo. Prostate, 2015, 75, 815-824.	1.2	41
123	Polymeric Selectin Ligands Mimicking Complex Carbohydrates: From Selectin Binders to Modifiers of Macrophage Migration. Angewandte Chemie - International Edition, 2017, 56, 1416-1421.	7.2	41
124	Imaging-assisted anticancer nanotherapy. Theranostics, 2020, 10, 956-967.	4.6	40
125	Biotin-decorated all-HPMA polymeric micelles for paclitaxel delivery. Journal of Controlled Release, 2020, 328, 970-984.	4.8	40
126	Nanoparticles for Cancer Diagnosis, Radionuclide Therapy and Theranostics. ACS Nano, 2021, 15, 16974-16981.	7.3	40

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127	Application of polymersomes engineered to target p32 protein for detection of small breast tumors in mice. Oncotarget, 2018, 9, 18682-18697.	0.8	39
128	Synthesis and Characterization of HE-24.8:Â A Polymeric Contrast Agent for Magnetic Resonance Angiography. Bioconjugate Chemistry, 2006, 17, 42-51.	1.8	38
129	Gene silencing activity of siRNA polyplexes based on biodegradable polymers. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 450-457.	2.0	38
130	Elastin-based molecular MRI of liver fibrosis. Hepatology, 2013, 58, 1517-1518.	3.6	38
131	Decationized polyplexes as stable and safe carrier systems for improved biodistribution in systemic gene therapy. Journal of Controlled Release, 2014, 195, 162-175.	4.8	38
132	Image-guided drug delivery: preclinical applications and clinical translation. Expert Opinion on Drug Delivery, 2015, 12, 1203-1207.	2.4	38
133	Tailoring the physicochemical properties of core-crosslinked polymeric micelles for pharmaceutical applications. Journal of Controlled Release, 2016, 244, 314-325.	4.8	37
134	The hepatic lipidome: From basic science to clinical translation. Advanced Drug Delivery Reviews, 2020, 159, 180-197.	6.6	37
135	Virtual Elastic Sphere Processing Enables Reproducible Quantification of Vessel Stenosis at CT and MR Angiography. Radiology, 2011, 260, 709-717.	3.6	36
136	Theranostic Systems and Strategies for Monitoring Nanomedicine-Mediated Drug Targeting. Current Pharmaceutical Biotechnology, 2012, 13, 609-622.	0.9	36
137	Comparison of Polymeric siRNA Nanocarriers in a Murine LPS-Activated Macrophage Cell Line: Gene Silencing, Toxicity and Off-Target Gene Expression. Pharmaceutical Research, 2012, 29, 669-682.	1.7	36
138	Sunitinib microspheres based on [PDLLA-PEG-PDLLA]-b-PLLA multi-block copolymers for ocular drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 368-377.	2.0	36
139	Immunomodulatory Therapy of Inflammatory Liver Disease Using Selectin-Binding Glycopolymers. ACS Nano, 2017, 11, 9689-9700.	7.3	36
140	Riboflavin carrier protein-targeted fluorescent USPIO for the assessment of vascular metabolism in tumors. Biomaterials, 2012, 33, 8822-8829.	5.7	34
141	MRI evaluation of the antitumor activity of paramagnetic liposomes loaded with prednisolone phosphate. European Journal of Pharmaceutical Sciences, 2012, 45, 436-441.	1.9	34
142	Molecular Ultrasound Imaging of Junctional Adhesion Molecule A Depicts Acute Alterations in Blood Flow and Early Endothelial Dysregulation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 40-48.	1.1	34
143	A collagen-binding protein enables molecular imaging of kidney fibrosis inÂvivo. Kidney International, 2020, 97, 609-614.	2.6	34
144	Combined treatment with recombinant tissue plasminogen activator and dexamethasone phosphateâ€containing liposomes improves neurological outcome and restricts lesion progression after embolic stroke in rats. Journal of Neurochemistry, 2012, 123, 65-74.	2.1	33

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145	Cancer nanomedicine meets immunotherapy: opportunities and challenges. Acta Pharmacologica Sinica, 2020, 41, 954-958.	2.8	33
146	Liposomes as carriers for colchicine-derived prodrugs: Vascular disrupting nanomedicines with tailorable drug release kinetics. European Journal of Pharmaceutical Sciences, 2012, 45, 429-435.	1.9	32
147	Multimodal [GdO]⁺[ICG]^{â^'} Nanoparticles for Optical, Photoacoustic, and Magnetic Resonance Imaging. Chemistry of Materials, 2017, 29, 3547-3554.	3.2	32
148	FMN-Coated Fluorescent USPIO for Cell Labeling and Non-Invasive MR Imaging in Tissue Engineering. Theranostics, 2014, 4, 1002-1013.	4.6	31
149	Squamous Cell Carcinoma Xenografts: Use of VEGFR2-targeted Microbubbles for Combined Functional and Molecular US to Monitor Antiangiogenic Therapy Effects. Radiology, 2016, 278, 430-440.	3.6	31
150	Radiomic analysis of contrast-enhanced ultrasound data. Scientific Reports, 2018, 8, 11359.	1.6	31
151	Î electron-stabilized polymeric micelles potentiate docetaxel therapy in advanced-stage gastrointestinal cancer. Biomaterials, 2021, 266, 120432.	5.7	31
152	Role of PP2CÎ± in cell growth, in radio- and chemosensitivity, and in tumorigenicity. Molecular Cancer, 2007, 6, 65.	7.9	30
153	Influence of cholesterol inclusion on the doxorubicin release characteristics of lysolipid-based thermosensitive liposomes. International Journal of Pharmaceutics, 2018, 548, 778-782.	2.6	30
154	MR and PET-CT monitoring of tissue-engineered vascular grafts in the ovine carotid artery. Biomaterials, 2019, 216, 119228.	5.7	30
155	Optical imaging of the whole-body to cellular biodistribution of clinical-stage PEG-b-pHPMA-based core-crosslinked polymeric micelles. Journal of Controlled Release, 2020, 328, 805-816.	4.8	30
156	Multimodal and multiscale optical imaging of nanomedicine delivery across the blood-brain barrier upon sonopermeation. Theranostics, 2020, 10, 1948-1959.	4.6	30
157	Reprint of "Nanobody â€" Shell functionalized thermosensitive core-crosslinked polymeric micelles for active drug targeting". Journal of Controlled Release, 2011, 153, 93-102.	4.8	29
158	An in vitro assay based on surface plasmon resonance to predict the in vivo circulation kinetics of liposomes. Journal of Controlled Release, 2011, 156, 307-314.	4.8	29
159	Histidine-rich glycoprotein-induced vascular normalization improves EPR-mediated drug targeting to and into tumors. Journal of Controlled Release, 2018, 282, 25-34.	4.8	29
160	Macrophages protect against loss of adipose tissue during cancer cachexia. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 1128-1142.	2.9	29
161	Crystal Clots as Therapeutic Target in Cholesterol Crystal Embolism. Circulation Research, 2020, 126, e37-e52.	2.0	29
162	Amphiphilic Phospholipid-Based Riboflavin Derivatives for Tumor Targeting Nanomedicines. Bioconjugate Chemistry, 2016, 27, 2048-2061.	1.8	28

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163	Macro-nanomedicine: Targeting the big picture. Journal of Controlled Release, 2019, 294, 372-375.	4.8	28
164	Hybrid µCT-FMT imaging and image analysis. Journal of Visualized Experiments, 2015, , e52770.	0.2	27
165	Non-invasive molecular imaging of kidney diseases. Nature Reviews Nephrology, 2021, 17, 688-703.	4.1	26
166	In Vitro, In Vivo and In Silico Analysis of the Anticancer and Estrogen-like Activity of Guava Leaf Extracts. Current Medicinal Chemistry, 2014, 21, 2322-2330.	1.2	25
167	Noninvasive Molecular Ultrasound Monitoring of Vessel Healing After Intravascular Surgical Procedures in a Preclinical Setup. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1366-1373.	1.1	25
168	Locoregional cancer therapy using polymer-based drug depots. Drug Discovery Today, 2016, 21, 640-647.	3.2	25
169	Rhodamine-Loaded Intercellular Adhesion Moleculeâ€“1-targeted Microbubbles for Dual-Modality Imaging Under Controlled Shear Stresses. Circulation: Cardiovascular Imaging, 2013, 6, 974-981.	1.3	24
170	Progression of Myeloproliferative Neoplasms (MPN): Diagnostic and Therapeutic Perspectives. Cells, 2021, 10, 3551.	1.8	24
171	A polymeric colchicinoid prodrug with reduced toxicity and improved efficacy for vascular disruption in cancer therapy. International Journal of Nanomedicine, 2011, 6, 2697.	3.3	23
172	Liver fibrosis affects the targeting properties of drug delivery systems to macrophage subsets in vivo. Biomaterials, 2019, 206, 49-60.	5.7	22
173	Setting standards to promote progress in bioâ€“nano science. Nature Nanotechnology, 2019, 14, 626-626.	15.6	21
174	Targeting Activated Hepatic Stellate Cells Using Collagen-Binding Chitosan Nanoparticles for siRNA Delivery to Fibrotic Livers. Pharmaceutics, 2020, 12, 590.	2.0	21
175	New Aspects of Kidney Fibrosisâ€“From Mechanisms of Injury to Modulation of Disease. Frontiers in Medicine, 2021, 8, 814497.	1.2	21
176	Noninvasive Assessment of Elimination and Retention using CT-FMT and Kinetic Whole-body Modeling. Theranostics, 2017, 7, 1499-1510.	4.6	20
177	Tuning Optical Properties of BODIPY Dyes by Pyrrole Conjugation for Photoacoustic Imaging. Advanced Optical Materials, 2020, 8, 1902115.	3.6	20
178	The multikinase inhibitor regorafenib decreases angiogenesis and improves portal hypertension. Oncotarget, 2018, 9, 36220-36237.	0.8	20
179	Monitoring EPR Effect Dynamics during Nanotaxane Treatment with Theranostic Polymeric Micelles. Advanced Science, 2022, 9, e2103745.	5.6	20
180	Role of Platelet-Derived Growth Factor-CC in Capillary Rarefaction in Renal Fibrosis. American Journal of Pathology, 2015, 185, 2132-2142.	1.9	19

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181	PETâ€€CT Imaging of Polymeric Nanoparticle Tumor Accumulation in Patients. Advanced Materials, 2022, 34, e2201043.	11.1	19
182	HPMA-based polymer therapeutics improve the efficacy of surgery, of radiotherapy and of chemotherapy combinations. Nanomedicine, 2010, 5, 1501-1523.	1.7	18
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